# Testing Laboratories, Inc.



940 South Harney St., Seattle, Washington 98108 (206) 767-5060 FAX 767-5063

Chemistry Microbiology, and Technical Services

CLIENT: Alaskan Copper Works

P.O. Box 3546 Seattle, WA 98124 ATTN: Jim Brown

LABORATORY NO. 10710

DATE: July 14, 1988

PO# M6389

REPORT ON: WASTE DISCHARGE

SAMPLE

IDENTIFICATION: Submitted 07/05/88 and identified as shown below:

6-1-3200-M6389

2) 6-3-3200-M6389

3) 6-7-3200-M6389

6-9-3200-M6389

6-14-3200-M6389

6-16-3200-M6389 6)

6-21-3200-M6389 8)

6-23-3200-M6389 6-28-3200-M6389

6-30-3200-M6389 10)

TESTS PERFORMED AND RESULTS:

## parts per million (mg/L)

		2	3	4	5
Zinc	0.14	0.097	0.072	0.16	0.085
Chromium	1.2	0.74	0.77	1.0	0.74
Copper	0.52	0.37	0.22	0.52	0.37
Nickel	0.80	0.46	0.44	0.68	0.49
	6		8	9	10
Zinc	0.11	0.068	0.088	0.078	0.089
Chromium	1.1	0.73	0.85	0.89	1.3
Copper	0.65	0.34	0.48	0.38	0.48
Nickel	0.83	0.53	0.48	0.65	0.86



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LABORATORY NO. 10710

Alaskan Copper Works

parts per million (mg/L)

	Method <u>Blank</u>
Zinc	<0.002
Chromium	<0.005
Copper	<0.002
Nickel	<0.01

### Key

< indicates "less than"

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens

JMO:emt



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### APPENDIX

## Matrix Spike/Matrix Spike Duplicate Report

## Inorganics/Metals Analyses

		parts per	million	(mg/L)	mg/L	*
		Spike	Sample	MS	MSD	QC Limits
<u>Sample</u>	<u>Analyte</u>	Added	Result	Result	Result	RPD REC
1	Chromium	0.100	1.2	1.3	1.3	Comment A
1	Zinc	0.100	0.14	0.22	0.21	Comment A
1	Copper	0.100	0.52	0.57	0.54	Comment A
1	Nickel	0.200	0.80	0.89	0.88	Comment A

MS = Matrix Spike

MSD = Matrix Spike Duplicate

Rec = Recovery

RPD = Relative Percent Difference

Comment A. Samples are spiked prior to preparation and analysis at a level deemed to be generally appropriate to the average sample processed in the laboratory. In this case, the level of analyte already present in the sample was large enough to make an accurate determination of spike recovery impossible.



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